



# Newsletter November 2015

## Our products in the food industry



Last month celduc® relais exhibited its innovations at HOST in Milan / Italy (International Hospitality exhibition).  
With more than 150 000 visitors (with a growth of 13,5% compared to 2013) and 40% of professionals from abroad (172 countries were represented), this event shows it is a growing industry.

celduc® Solid State Relays (SSRs) are widely used in the food equipment industry as replacement of electromechanical relays because of their ability to work in harsh environments. Since there are no moving parts contact wear is eliminated and their semiconductor based design makes them environmentally safe to be used in most applications including : ovens, fryers, heaters broilers, food warmers and holding equipment, and coffee machines.

**SSR in cooking steam ovens & combi ovens**

**SSR in espresso & automatic coffee machines**

**Magnetic Proximity Sensors in professional kitchens**

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**Solid State Relays in cooking steam ovens & combi ovens**

The celduc® relais SSRs are used :

- ▶ to switch ON/OFF the heaters which heat the water producing the steam
- ▶ to switch ON/OFF the heaters of the ovens
- ▶ to switch ON/OFF the fan

*celduc® relais SSRs are the right choice for accurate and long life time temperature control.*

**Solid State Relays in espresso & automatic coffee machines**

The celduc® relais SSRs are used :

- ▶ to switch ON & OFF the water tank heaters
- ▶ to control the motors of pumps and grinders

**Magnetic Sensors in Professional kitchens**

Magnetic sensors

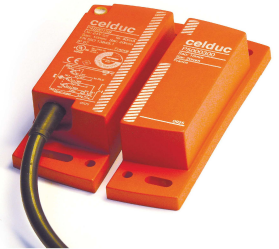
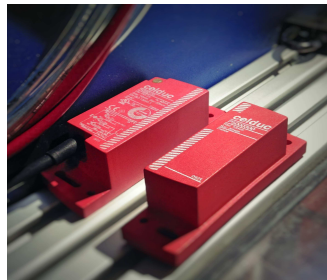
## HOST in Milan - ITALY From the 23rd to 27th of October 2015 A SUCCESS !

celduc® relais has exhibited its new products as well as its comprehensive product ranges to HOST.

Thanks to MECHTEX for the very good organisation of this event !



## **P3S/P4S range :** **Autonomous safety sensors with coded magnetic technology & safety module integrated !!**



### **For an appropriate safety !**

With these new products, celduc relais completes its range of safety sensors now made of 2 product lines :

- PSS/PXS range which should be connected to suitable safety module,
- P3S/P4S range with safety module integrated.

These products are designed for monitoring the doors, covers and guards of industrial machines with imprecise guiding and low inertia. They protect the operator by immediately stopping any dangerous movement as soon as the distance between the switch and its magnet is greater than 5 or 8mm.

### **Benefits of our new P3S/P4S range:**

- Easy to integrate inside the cabinets,
- Entirely electronic with high coding level (inviolability),
- High resistance to shocks and vibrations,
- Self-protected static outputs (short-circuit of the load and temperature).
- Virtually unlimited life time (very high MTTFd).

### **Main technical characteristics:**

- Cable outputs (standard 2, 5 or 10 meters) or M12 connectors with high resistance to external attacks (cutting oils, ...),
- Protection level : Very solid IP67 plastic housing and high-pressure washing resistance (IP69K),
- Safety level : Standard EN 13849-1 Performance level PL:e (EN 954-1) Category 3 and 4. Standard EN 62061 (in accordance IEC 61508) SIL3

**-P3S version** with redundancy and internal monitoring for using in category 3 according EN 13849-1. It is possible to connect up to 32 sensors in series.

**-P4S version** with redundancy, internal and external monitoring of external contactors with EDM (External Devices Monitoring) feedback loop for using in category 4 according EN 13849-1. Status output informing any defect of the system.

**Main applications:**

-For our P3S and P4S range  
Industrial machines with gates having imprecise guidance and or subject to frequent washing, packaging machines, food processing machines, machines for the production of micro-components.

-For our PSS and PXS range  
Light industrial machines, handling, textile machines, robotics, machines tools.

[Technical data-sheet P3S - P4S](#)

[Our complete range of safety sensors](#)



## Exhibitions - November / December 2015

We are pleased to inform you that celduc products will be presented at the following exhibition :



**-INSTRUTECH 2015 - Tallin - ESTONIA**

From the 18th to the 20th of November 2015

Exhibitor : Keramserviss

[Website](#)



**-SEMICON - Tokyo - JAPAN**

From the 16th to 18th of December 2015

Exhibitor : celduc relais / Eishin Intl

[Website](#)

## Office closed for Christmas & New year

Please note that celduc® relais will be closed on the **25th of December** and on the **31st of December & 1st of January**.

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